

Listing of Claims

The following listing of claims will replace all prior versions, and listings, of claims in the subject application:

Claims 1-11 (canceled).

12. (currently amended) [[A]] An optical phase variation type data recording medium comprising:

a reflective layer;

a phase variation type recording layer consisting mainly of Ag, In, Sb and Te;

a protection layer comprising:

SiO₂ as a basic material; and

a compound having a thermal conductivity greater than or equal to 10 W/m.deg when in a bulk state, said compound comprising silicon nitride in a molar ratio with the basic material of 10% to 85% silicon nitride,

wherein a thermal conductivity of said protection layer allows amorphous portions to be recorded in said recording layer through heating followed by rapid cooling, while protecting other portions of said recording layer from heating during said recording to said amorphous portions.

Claims 13-15 (canceled).

16. (currently amended) [[A]] An optical phase variation type data recording medium

including comprising:

a reflective layer;

a phase variation type recording layer consisting mainly of Ag, In, Sb and Te;

a protection layer comprising:

SiO₂ as a basic material; and

a compound having a thermal conductivity greater than or equal to 10 W/m.deg when
in a bulk state, said compound comprising one or more of the compounds selected
from the group consisting of:

zinc oxide in a molar ratio with the basic material of 3% to 50% zinc oxide,

titanium oxide in a molar ratio with the basic material of 10% to 98%

titanium oxide,

magnesium oxide in a molar ratio with the basic material of 3% to 45%

magnesium oxide,

yttrium oxide in a molar ratio with the basic material of 10% to 80% yttrium
oxide,

gallium nitride in a molar ratio with the basic material of 1% to 30% gallium
nitride,

silicon nitride in a molar ratio with the basic material of 10% to 85% silicon
nitride,

aluminum nitride in a molar ratio with the basic material of 1% to 50%
aluminum nitride,

silicon carbide in a molar ratio with the basic material of 5% to 50% silicon
carbide, and

titanium carbide in a molar ratio with the basic material of 10% to 85%
titanium carbide,

wherein a thermal conductivity of said protection layer allows amorphous portions to be recorded in said recording layer through heating followed by rapid cooling, while protecting other portions of said recording layer from heating during said recording to said amorphous portions.

17. (currently amended) ~~A phase variation type~~ The data recording medium as claimed in claim 12, wherein the compound includes a combination of the silicon nitride and zinc oxide, aluminum oxide, titanium oxide, magnesium oxide, yttrium oxide, gallium nitride, aluminum nitride, and/or silicon carbide.

18. (currently amended) ~~A phase variation type~~ The data recording medium as claimed in claim 12, wherein the protection layer is adapted for use with the phase variation type data recording layer in an EFM modulation type recording system.

19. (currently amended) ~~A phase variation type~~ The data recording medium as claimed in claim 12, wherein the phase variation type data recording medium is adapted for use with a recording mechanism which uses melting and rapid cooling of the phase variation type data recording layer.

20. (currently amended) ~~A phase variation type~~ The data recording medium as claimed in claim 16, wherein the protection layer is adapted for use with the phase variation type data

recording layer in an EFM modulation type recording system.

21. (currently amended) ~~A phase variation type~~ The data recording medium as claimed in claim 16, wherein the protection layer is adapted for use with a recording mechanism which uses melting and rapid cooling of the phase variation type data recording layer.

Claims 22-23 (canceled).